

Alice E White

List of Publications by Year in descending order

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papers

6,064
citations

101535

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docs citations

96
times ranked

3501
citing authors

#	ARTICLE	IF	CITATIONS
1	Superconductivity near 30 K without copper: the Ba _{0.6} K _{0.4} BiO ₃ perovskite. <i>Nature</i> , 1988, 332, 814-816.	27.8	1,192
2	Isotope Effect in the High-Tc Superconductors Ba ₂ YCu ₃ O ₇ and Ba ₂ EuCu ₃ O ₇ . <i>Physical Review Letters</i> , 1987, 58, 2333-2336.	7.8	519
3	Equilibrium shape of Si. <i>Physical Review Letters</i> , 1993, 70, 1643-1646.	7.8	478
4	Mesotaxy: Single-crystal growth of buried CoSi ₂ layers. <i>Applied Physics Letters</i> , 1987, 50, 95-97.	3.3	420
5	Nonzero isotope effect in La _{1.85} Sr _{0.15} CuO ₄ . <i>Physical Review Letters</i> , 1987, 59, 912-914.	7.8	221
6	Destruction of superconductivity in quench-condensed two-dimensional films. <i>Physical Review B</i> , 1986, 33, 3549-3552.	3.2	164
7	Demonstration of a Tunable Microwave-Photonic Notch Filter Using Low-Loss Silicon Ring Resonators. <i>Journal of Lightwave Technology</i> , 2009, 27, 2105-2110.	4.6	153
8	Ion-beam-induced metal-insulator transition in YBa ₂ Cu ₃ O _{7-δ} : A mobility edge. <i>Physical Review B</i> , 1989, 39, 11599-11602.	3.2	144
9	In situ epitaxial growth of YBa ₂ Cu ₃ O _{7-δ} films by molecular beam epitaxy with an activated oxygen source. <i>Applied Physics Letters</i> , 1988, 53, 2683-2685.	3.3	142
10	Breakdown of Eliashberg Theory for Two-Dimensional Superconductivity in the Presence of Disorder. <i>Physical Review Letters</i> , 1986, 57, 2195-2198.	7.8	131
11	Sharp angular sensitivity of pinning due to twin boundaries in Ba ₂ YCu ₃ O ₇ . <i>Applied Physics Letters</i> , 1990, 56, 2465-2467.	3.3	107
12	Ion-beam-induced destruction of superconducting phase coherence in YBa ₂ Cu ₃ O _{7-δ} . <i>Physical Review B</i> , 1988, 37, 3755-3758.	3.2	100
13	Controllable reduction of critical currents in YBa ₂ Cu ₃ O _{7-δ} films. <i>Applied Physics Letters</i> , 1988, 53, 1010-1012.	3.3	98
14	Critical currents in proton-irradiated single-crystal Ba ₂ YCu ₃ O _{7-δ} . <i>Applied Physics Letters</i> , 1990, 56, 2681-2683.	3.3	91
15	Demonstration of a Fourth-Order Pole-Zero Optical Filter Integrated Using CMOS Processes. <i>Journal of Lightwave Technology</i> , 2007, 25, 87-92.	4.6	83
16	Enhanced strain relaxation in Si/GexSi _{1-x} /Si heterostructures via point defect concentrations introduced by ion implantation. <i>Applied Physics Letters</i> , 1990, 56, 2445-2447.	3.3	81
17	Mechanisms of buried oxide formation by ion implantation. <i>Applied Physics Letters</i> , 1987, 50, 19-21.	3.3	77
18	Preparation of superconducting thin films of calcium strontium bismuth copper oxides by coevaporation. <i>Applied Physics Letters</i> , 1988, 52, 1828-1830.	3.3	73

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19	From Simple to Architecturally Complex Hydrogel Scaffolds for Cell and Tissue Engineering Applications: Opportunities Presented by Two-Photon Polymerization. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901217.	7.6	70
20	Evidence for Interaction Effects in the Low-Temperature Resistance Rise in Ultrathin Metallic Wires. <i>Physical Review Letters</i> , 1982, 48, 1752-1755.	7.8	64
21	Silicon RF-Photonic Filter and Down-Converter. <i>Journal of Lightwave Technology</i> , 2010, 28, 3019-3028.	4.6	61
22	Correction to the two-dimensional density of states. <i>Physical Review B</i> , 1985, 31, 1174-1176.	3.2	55
23	Parameters for in situ growth of high T _c superconducting thin films using an oxygen plasma source. <i>Applied Physics Letters</i> , 1988, 53, 441-443.	3.3	54
24	A micro-scale printable nanoclip for electrical stimulation and recording in small nerves. <i>Journal of Neural Engineering</i> , 2017, 14, 036006.	3.5	52
25	Carbon fiber on polyimide ultra-microelectrodes. <i>Journal of Neural Engineering</i> , 2018, 15, 016010.	3.5	50
26	Formation of continuous CoSi ₂ layers by high Co dose implantation into Si(100). <i>Journal of Applied Physics</i> , 1990, 68, 1629-1634.	2.5	49
27	Mesotaxy: Synthesis of buried single-crystal silicide layers by implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1989, 39, 253-258.	1.4	48
28	Patterned Electrical Conductance and Electrode Formation in Ion-Implanted Diamond Films. <i>Journal of the Electrochemical Society</i> , 1994, 141, L41-L43.	2.9	48
29	40-wavelength add drop filter. <i>IEEE Photonics Technology Letters</i> , 1999, 11, 1437-1439.	2.5	48
30	Low-temperature magnetoresistance in two-dimensional magnesium films. <i>Physical Review B</i> , 1984, 29, 3694-3696.	3.2	45
31	Application of ~100 Å linewidth structures fabricated by shadowing techniques. <i>Journal of Vacuum Science and Technology</i> , 1981, 19, 892-896.	1.9	44
32	Ion beam thinning and polishing of YBa ₂ Cu ₃ O ₇ films. <i>Applied Physics Letters</i> , 1989, 55, 1915-1917.	3.3	44
33	Dynamic Actuation of Soft 3D Micromechanical Structures Using Micro-Electromechanical Systems (MEMS). <i>Advanced Materials Technologies</i> , 2018, 3, 1700293.	5.8	43
34	Propagation of picosecond electrical pulses on a silicon-based microstrip line with buried cobalt silicide ground plane. <i>Applied Physics Letters</i> , 1991, 58, 2604-2606.	3.3	42
35	Electrical and structural properties of Si/CrSi ₂ /Si heterostructures fabricated using ion implantation. <i>Applied Physics Letters</i> , 1990, 56, 1260-1262.	3.3	41
36	CMOS-Compatible Si-Ring-Assisted Mach-Zehnder Interferometer With Internal Bandwidth Equalization. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 45-52.	2.9	37

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37	Synthesis of Buried Silicon Compounds Using Ion Implantation. Materials Research Society Symposia Proceedings, 1988, 100, 3.	0.1	35
38	Arrayed waveguide lens wavelength add-drop in silica. IEEE Photonics Technology Letters, 1999, 11, 557-559.	2.5	34
39	Enhancement of flux pinning by H ⁺ and Xe ⁺ irradiation in epitaxial thin films of Ba ₂ YCu ₃ O _{7-x} . Applied Physics Letters, 1992, 60, 2932-2934.	3.3	33
40	Oxygen intercalation homogeneity and electrical transport in superconducting Ba ₂ YCu ₃ O _{7-x} crystals. Physical Review B, 1988, 38, 7129-7132.	3.2	31
41	Engineering a living cardiac pump on a chip using high-precision fabrication. Science Advances, 2022, 8, eabm3791.	10.3	30
42	Quantum transport in narrow MOSFET channels. Surface Science, 1986, 170, 1-13.	1.9	29
43	Characterization of GaAs layers grown directly on Si substrates by metalorganic chemical vapor deposition. Journal of Applied Physics, 1987, 62, 862-867.	2.5	29
44	Corrections to the one-dimensional density of states: Observation of a Coulomb gap?. Physical Review Letters, 1986, 56, 532-535.	7.8	28
45	Advances in fiber optics. Bell Labs Technical Journal, 2002, 5, 168-187.	0.7	28
46	Studies of 3D directed cell migration enabled by direct laser writing of curved wave topography. Biofabrication, 2019, 11, 021001.	7.1	28
47	Exploiting Si/CoSi ₂ /Si heterostructures grown by mesotaxy. Nuclear Instruments & Methods in Physics Research B, 1991, 59-60, 693-697.	1.4	27
48	Ultraviolet laser fabrication of strong, nearly polarization-independent Bragg reflectors in germanium-doped silica waveguides on silica substrates. Applied Physics Letters, 1994, 65, 3308-3310.	3.3	27
49	Direct laser writing for cardiac tissue engineering: a microfluidic heart on a chip with integrated transducers. Lab on A Chip, 2021, 21, 1724-1737.	6.0	27
50	Temperature dependence of reactive ion etching of GaAs with CCl ₂ F ₂ :O ₂ . Journal of Applied Physics, 1989, 66, 3839-3849.	2.5	25
51	Design and Realization of 3D Printed AFM Probes. Small, 2018, 14, e1800162.	10.0	25
52	Synthesis of Buried Silicon Compounds Using Ion Implantation. Materials Research Society Symposia Proceedings, 1987, 107, 3.	0.1	24
53	Tunable Infrared Metasurface on a Soft Polymer Scaffold. Nano Letters, 2018, 18, 2802-2806.	9.1	24
54	Implantation, damage, and regrowth of high T _c superconductors. Nuclear Instruments & Methods in Physics Research B, 1989, 37-38, 923-929.	1.4	23

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55	Formation of cobalt silicide in Co-implanted Si(111). Applied Physics Letters, 1991, 58, 122-124.	3.3	22
56	Transport in submicrometer buried mesotaxial cobalt silicide wires. Applied Physics Letters, 1993, 62, 387-389.	3.3	22
57	Quantum transport of buried single-crystalline CoSi ₂ layers in (111)Si and (100)Si substrates. Physical Review B, 1993, 48, 8002-8015.	3.2	22
58	Printable microscale interfaces for long-term peripheral nerve mapping and precision control. Nature Communications, 2020, 11, 4191.	12.8	22
59	Ion beam induced damage and superlattice formation in epitaxial YBa ₂ Cu ₃ O _{7-δ} thin films. Applied Physics Letters, 1989, 54, 1178-1180.	3.3	20
60	Amorphization and regrowth in Si/CoSi ₂ /Si heterostructures. Journal of Applied Physics, 1990, 68, 5641-5647.	2.5	20
61	Anisotropic strain relaxation in buried CoSi ₂ layers formed by mesotaxy. Journal of Applied Physics, 1990, 67, 787-791.	2.5	20
62	High critical currents in c-axis textured Bi-Pb-Sr-Ca-Cu-O superconductor ribbons. Physica C: Superconductivity and Its Applications, 1991, 177, 189-194.	1.2	18
63	Buried Oxide and Silicide Formation by High-Dose Implantation in Silicon. MRS Bulletin, 1992, 17, 40-46.	3.5	18
64	Effects of 3.1-MeV proton and 1-GeV Au-ion irradiation on the magnetic flux noise and critical current of YBa ₂ Cu ₃ O _{7-δ} . Physical Review B, 1996, 54, 15411-15416.	3.2	18
65	Epitaxial order and resistivity of high temperature superconductors grown on SrTiO ₃ . Journal of Crystal Growth, 1988, 91, 386-391.	1.5	17
66	Massively parallel cantilever-free atomic force microscopy. Nature Communications, 2021, 12, 393.	12.8	17
67	Evolution of buried compound layers formed by ion implantation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1992, 12, 107-114.	3.5	15
68	Controlled misfit dislocation nucleation in Si _{0.90} Ge _{0.10} epitaxial layers grown on Si. Applied Physics Letters, 1993, 63, 746-748.	3.3	12
69	Polarization-insensitive planar lightwave circuit dual-rate Mach-Zehnder delay-interferometer. IEEE Photonics Technology Letters, 2006, 18, 1708-1710.	2.5	11
70	Controlled Cell Alignment Using Two-Photon Direct Laser Writing in Patterned Hydrogels in 2D and 3D. Macromolecular Bioscience, 2021, 21, e2100051.	4.1	11
71	Fabrication of multi-material 3D structures by the integration of direct laser writing and MEMS stencil patterning. Nanoscale, 2019, 11, 3261-3267.	5.6	11
72	GaAs-on-Si modulator using a buried silicide reflector. IEEE Photonics Technology Letters, 1992, 4, 140-142.	2.5	9

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73	Mesotaxy: Single-Crystal Growth of Buried Silicide Layers. Materials Research Society Symposia Proceedings, 1987, 93, 93.	0.1	8
74	Synthesis of Buried Oxide and Silicide Layers with Ion Beams. Science, 1988, 241, 930-935.	12.6	8
75	Temperature dependent segregation of metals at SiO ₂ interfaces during oxygen ion bombardment. Applied Physics Letters, 1997, 70, 426-428.	3.3	8
76	Superconductivity at 121 K in a new bulk TlBaCaCuO compound. Applied Physics Letters, 1988, 53, 911-912.	3.3	7
77	Coalescence of buried CoSi ₂ layers formed by mesotaxy in Si(111). Journal of Applied Physics, 1991, 70, 7354-7361.	2.5	7
78	Mesotaxy Layers of IrSi ₃ in (111)Si Formed by MeV ION Implantation. Materials Research Society Symposia Proceedings, 1991, 235, 279.	0.1	6
79	Ion-Beam-Induced Destruction of Superconducting Phase Coherence in YBa ₂ Cu ₃ O _{7-δ} . Materials Research Society Symposia Proceedings, 1987, 99, 531.	0.1	5
80	Interfacial structure and its effect on nucleation and growth energetics in mesotaxial Si/CoSi ₂ /Si structures. Applied Physics Letters, 1991, 59, 3467-3469.	3.3	5
81	Increased pinning energies and critical current densities in heavy-ion irradiated Bi ₂ Sr ₂ CaCu ₂ O ₈ single crystals. Applied Physics Letters, 1993, 62, 759-761.	3.3	5
82	The Role of Implant Temperature in the Formation of Thin Buried Oxide Layers. Materials Research Society Symposia Proceedings, 1986, 74, 585.	0.1	4
83	Optical Fiber Components and Devices. , 1997, , 267-318.		4
84	Optical modulation techniques for analog signal processing and CMOS compatible electro-optic modulation. , 2008, , .		3
85	Reconstruction of (100) Silicon/Disilicide Interfaces. Materials Research Society Symposia Proceedings, 1989, 139, 97.	0.1	2
86	Lateral Confinement of Silicide Layers Synthesized with High Dose Implantation and Annealing. Materials Research Society Symposia Proceedings, 1989, 147, 223.	0.1	2
87	30 nm CoSi ₂ surface layers for contact metallization in complementary metal-oxide-semiconductor processes. Applied Physics Letters, 1992, 61, 2311-2313.	3.3	2
88	Sub-Micron Mesotaxial CoSi ₂ Wires. Materials Research Society Symposia Proceedings, 1992, 279, 881.	0.1	2
89	Low Resistivity CoSi ₂ Surface Layers for Use as Contacts in CMOS Processes. Materials Research Society Symposia Proceedings, 1991, 224, 109.	0.1	1
90	Integrated Optical Components For WDM Systems. Optics and Photonics News, 2000, 11, 26.	0.5	1

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91	Evolution of Buried Cobalt Silicide Layers Formed by Co Implantation in Si(111). Materials Research Society Symposia Proceedings, 1990, 202, 665.	0.1	0
92	Application of Novel Epitaxy Techniques to the Growth of CrSi ₂ . Materials Research Society Symposia Proceedings, 1993, 320, 453.	0.1	0
93	Optical Fiber Components and Devices. , 1997, , 267-318.		0
94	Studies of CoSi ₂ nano-structures produced by high-dose ion implantation in Si. Proceedings Annual Meeting Electron Microscopy Society of America, 1989, 47, 454-455.	0.0	0